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DOCUMENT-IDENTIFIER: US 6080578 A
TITLE: Cytopathic adenoviral E1B mutated viruses for therapy and prophylaxis of neoplasia

BSPR:
In an alternative embodiment of the invention, a recombinant adenovirus comprising an E1a locus encoding an E1a protein (e.g., p289R or p243R) that is substantially incapable of forming a complex with RB protein in infected cells is administered to an individual or cell population comprising a neoplastic cell capable of being infected by the recombinant adenovirus. The substantial incapacity of the recombinant adenovirus to effectively sequester RB protein in infected non-neoplastic cells results in the introduced recombinant adenoviral polynucleotide(s) failing to express a replication phenotype in non-neoplastic cells. By contrast, neoplastic cells which lack a functional RB protein support expression of a replication phenotype by the introduced recombinant adenovirus which leads to ablation of the neoplastic cell by an adenoviral cytopathic effect and/or expression of a negative selection gene linked to the replication phenotype. In preferred variations of these embodiments, the recombinant adenovirus comprises an E1a locus encoding a mutant E1a protein (e.g., p289R) that lacks a CR1 and/or CR2 domain capable of binding RB (and/or the 300kD polypeptide and/or the 107kD polypeptide) but comprises a functional CR3 domain capable of transactivation of adenoviral early genes. Additional variations of these embodiments include those where the recombinant adenovirus comprises a nonfunctional E1a locus which is substantially incapable of expressing a protein that binds to and inactivates RB and may optionally also comprise a functional p19 protein (i.e., capable of stimulating expression of adenoviral early region genes in the absence of E1a function). Recombinant adenoviruses of the invention may further comprise a mutant p19 gene which produces enhanced cytopathic effects; such a mutant known in the art is the p19 cyt mutant gene.

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